



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/077,012	02/15/2002	Virinder M. Batra	RSW920010183US1	3519
46320 7590 12/12/2007 CAREY, RODRIGUEZ, GREENBERG & PAUL, LLP STEVEN M. GREENBERG 950 PENINSULA CORPORATE CIRCLE SUITE 3020 BOCA RATON, FL 33487				
EXAMINER CHOUDHURY, AZIZUL Q				
ART UNIT		PAPER NUMBER		
2145				
MAIL DATE		DELIVERY MODE		
12/12/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/077,012

Applicant(s)

BATRA ET AL.

Examiner

AZIZUL CHOUDHURY

Art Unit

2145

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 9/30/07.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/CDC)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date _____

Detailed Action

This office action is in response to the correspondence received on August 30, 2007

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Requena (US PGPub No: US 20020126701A1) in view of Kang-Jun Lee et al ("Development of an XML Data Provider Supporting the OpenGIS Specification), hereafter referred to as Requena and Lee, respectively.

1. With regards to claims 1 and 5, Requena teaches through Lee, a method of processing requests from location-based service applications for location-based services provided by a plurality of disparate location-based service providers, different ones of said plurality of disparate location-based service providers specifying different formats for receiving said requests, comprising the steps of the location service: receiving requests for location based-services (*The user requests a specific location-based service which is received by the HSS or the Presence server; see paragraph 209 and Figure 9, Requena*); determining from each said request a particular location-based service provider which can service said request

(After receipt by the HSS/Presence server, the CSCF determines available location-based services; see paragraphs 209 and 213, Requena); specifically formatting each said request according to a specific format specified, by said particular location-based service provider (Requests are to be of a specified format; see paragraph 107, Requena); uniformly formatting each result set produced from corresponding ones of said requests (The CSCF sends the result back in a specified format; see paragraph 215, Requena); and, to forwarding said uniformly formatted result sets to the location-based service applications (The results are of a specified format; see paragraph 215, Requena).

While Requena's design teaches location-based services and standardized formats for messages, it does not explicitly teach a uniform format for the requests and results. In the same field of endeavor, Lee teaches a location-based system (GML requests) that standardizes messages to a uniform language (XML) (see *second paragraph of the introduction and section II, sub-section B, Lee*). Within section II, sub-section B of Lee's disclosure, Lee teaches, "encoding rules from geographical data to XML," and XML encoding of geographical data. Therefore, it would have been obvious to one skilled in the art, during the time of the invention, to have combined the teachings of Requena with those of Lee, to provide users with interoperability for various geographical data in the form of XML documents (see *conclusion, Lee*).

2. With regards to claims 2 and 6, Requena teaches through Lee, the method wherein said uniformly formatted result sets are result sets which have been formatted according to the Geography Markup Language (GML) (*Requena's design allows for GML; see paragraph 120, Requena. And Lee's design allows for GML; see section II, sub-section B, Lee*).
3. With regards to claim 3, Requena teaches through Lee, a common location-based service adapter interface, comprising: a uniform input interface through which location-based services can be requested using a uniform format which is independent of any specific formatting required by a particular service adapter configured to process said location-based services; and, a uniform output interface through which specifically formatted result sets can be formatted using said uniform format, wherein said uniform input interface adapted to be connected to different service adapters specifying different formats for receiving requests (*Lee teaches in section III, sub-section A, the XML data provider. The XML data provider interface converts input and output into a uniform XML format*).
4. With regards to claim 4, Requena teaches through Lee, the common location-based service adapter interface wherein said uniform input interface comprises: a plurality of location-based service adapter objects, each said adapter object being configured to provide said at least one location-based service responsive to receiving a uniformly formatted location-based service request; a location service

object configured to provide a reference to a particular one of said location-based service adapter objects based upon a specified location-based service; and, a plurality of location request objects configured to define location-based service request parameters required by generic ones of said location-based service adapter objects (*Lee teaches in section III, sub-sections A and B, the XML data provider. The XML data provider converts input and output into a uniform XML format through the use of objects*).

5. The obviousness motivation applied to claims 1 and 5 are applicable to their respective dependent claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AZIZUL CHOUDHURY whose telephone number is (571)272-3909. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Cardone can be reached on (571) 272-3933. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2145

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AC

/Jason D Cardone/
Supervisory Patent Examiner,
Art Unit 2145